

# Upper Route 9G

## Corridor Management Plan



# PUBLIC WORKSHOPS

## Upper Route 9G Corridor Management Plan

Poughkeepsie-Dutchess County Transportation Council (PDCTC), the designated Metropolitan Planning Organization for Dutchess County, is working on a Corridor Management Plan for NYS Route 9G from CR 78 (Broadway/West Kerley Corners Road) in the Village of Tivoli to NYS Route 199 in the Town of Red Hook. The study area also includes CR 103/ Annandale Road through Bard College and CR 78/Broadway through Tivoli. Join us at one of the Public Workshops to learn more about the findings and recommendations from the project and to provide your feedback.

Join us at one of the Public Workshops!

**Workshop 1:**  
Wednesday May 11: 12 - 2pm  
@ Bard College,  
Bertelsmann Campus Center,  
Annandale Road: Multipurpose Room

**Workshop 2:**  
Thursday May 12: 6:30 - 8:30pm  
Tivoli Village Hall,  
86 Broadway: 3rd Floor Meeting Room

PRESENTED BY

Mark Debald, PDCTC  
John Canning, VHB  
Susan O'Donnell, VHB  
Bob Dennison, VHB



**PDCTC**  
Poughkeepsie-Dutchess County Transportation Council

**vhb**

# Project Introduction

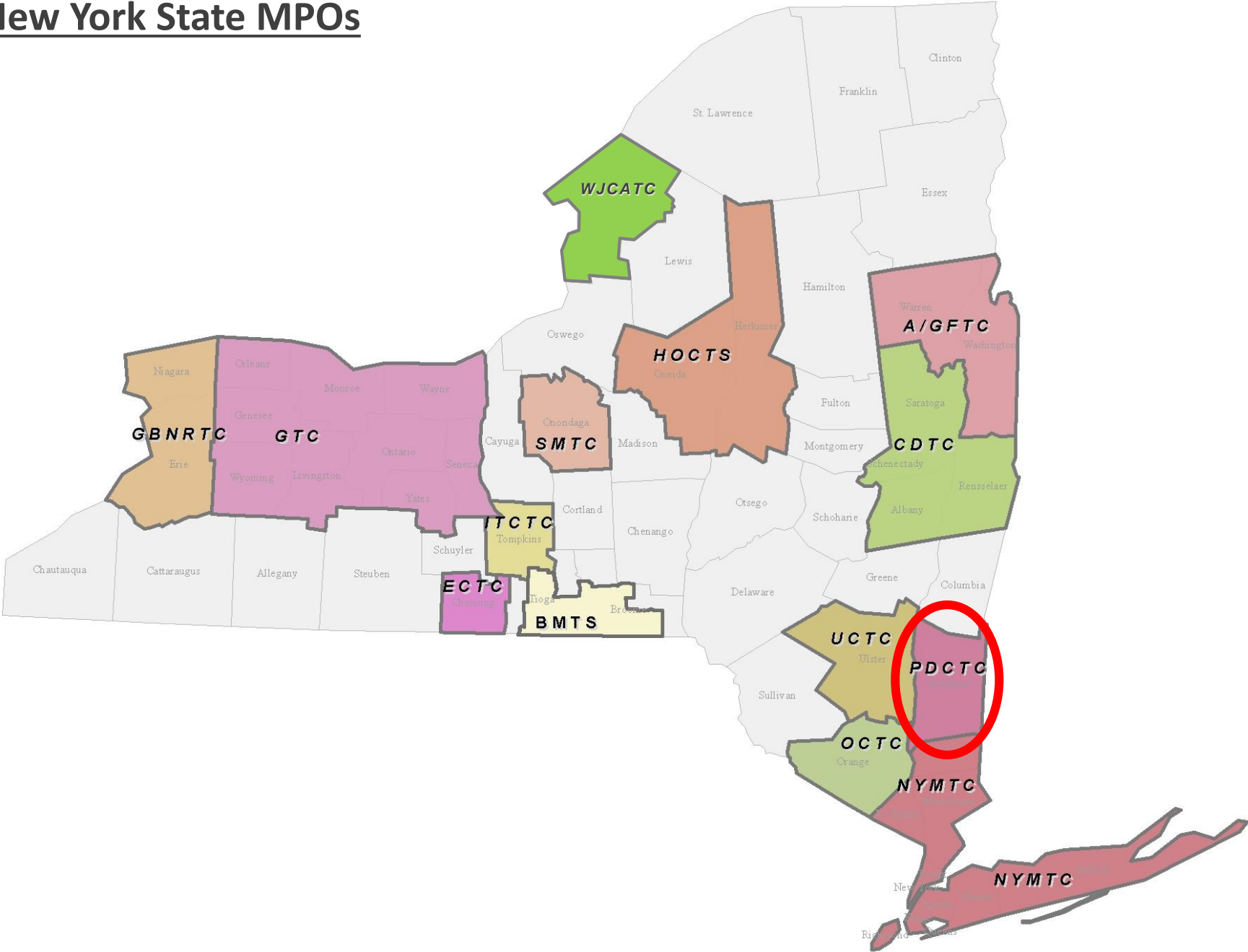
Upper Route 9G Corridor Management Plan

# **Poughkeepsie-Dutchess County Transportation Council**

## **Who We Are:**

- **Designated Metropolitan Planning Organization (MPO) for Dutchess County**
- **Established in 1982**
- **Required by the federal government for Urbanized Areas of 50,000+ population**
- **Forum for establishing transportation policies and priorities**
- **Programs federal highway and transit funding through a locally driven, comprehensive planning process**
- **Assists communities with local transportation planning needs**

New York State MPOs





# PDCTC Voting Membership

## **Permanent Members**

Dutchess County Executive, Permanent Chairperson  
NYSDOT Commissioner  
Metropolitan Transportation Authority Chairperson  
City of Beacon Mayor  
City of Poughkeepsie Mayor  
Town of Beekman Supervisor  
Town of East Fishkill Supervisor  
Town of Fishkill Supervisor  
Town of Hyde Park Supervisor  
Town of LaGrange Supervisor  
Town of Poughkeepsie Supervisor  
Town of Wappinger Supervisor

## **Partially Urbanized Towns (Rotating)**

Town of Pawling Supervisor  
Town of Pleasant Valley Supervisor\*  
Town of Union Vale Supervisor

## **Urbanized Villages (Rotating)**

Village of Fishkill Mayor  
Village of Pawling Mayor\*  
Village of Wappingers Falls Mayor

## **Non-Urban Towns (Nominated)**

Town of Clinton Supervisor  
Town of Pine Plains Supervisor

\* Current voting member.

# PDCTC Planning Projects

- **Route 9 Land Use & Transportation Study (2009)**

⇒ *Pedestrian underpass at Marist College*

- **CR 93 Corridor Management Plan (2011)**

⇒ *Traffic analysis and recommendations*

- **Hyde Park Sidewalk Study (2013)**

⇒ *Route 9 sidewalk improvements*

- **Transit Development Plan (2009)**

⇒ *New bus routes and schedules*

- **Dutchess County Bus Expansion Study (2013)**

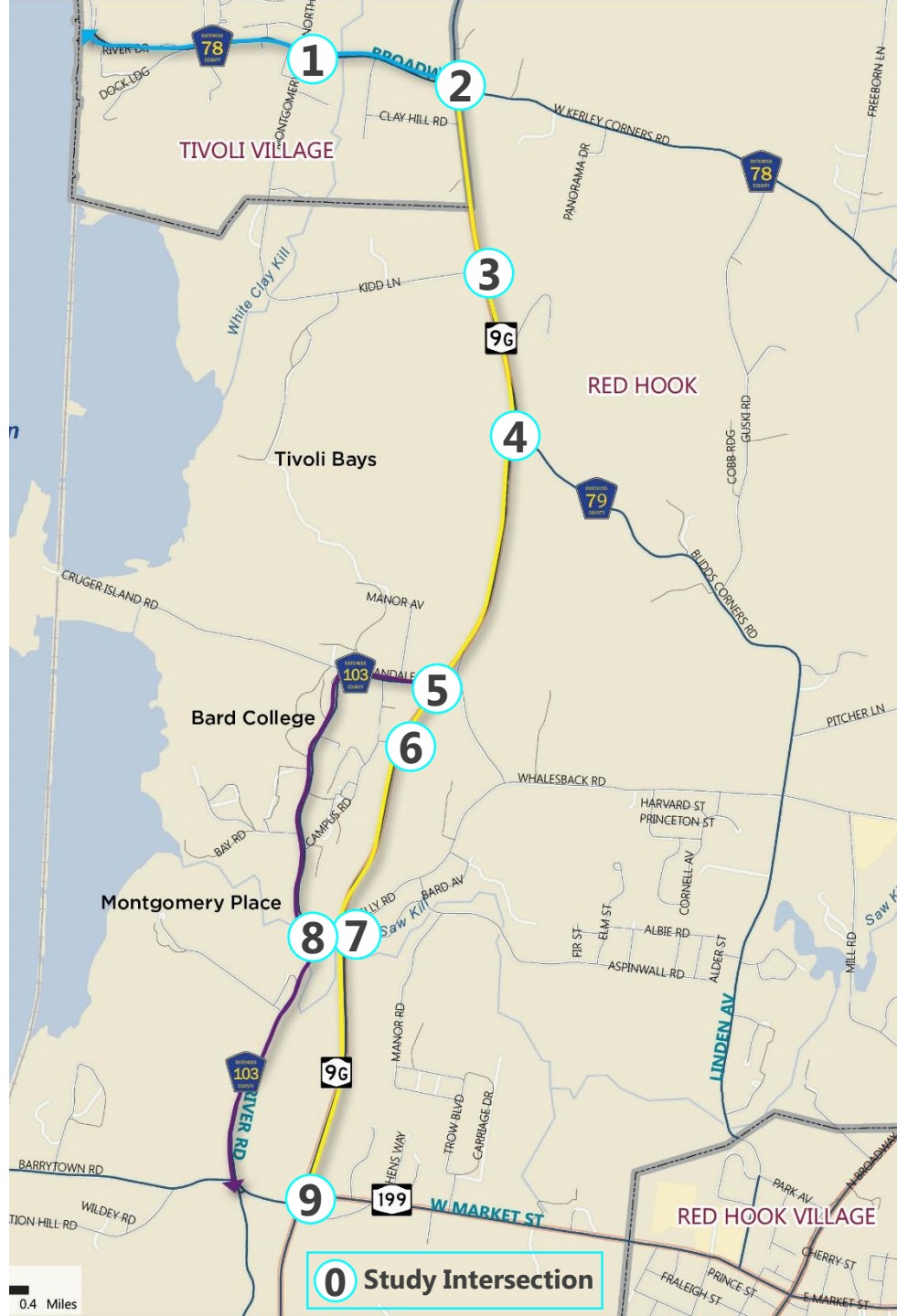
⇒ *Strategy to expand DCPT service in Poughkeepsie*



# Overview of Corridor Management Plan

Upper Route 9G Corridor Management Plan

## Upper Route 9G Study Area



# Crash History

## Historic Crash Records (2009-2013)

- Approximately 250 crashes over 5 years
- Five fatalities in three crashes:
  1. Jan. 2012 on Rt 9G at CR 78/Broadway
  2. Sept. 2013 on Rt 9G at CR 78/Broadway
  3. Oct. 2009 on CR 103/Annandale Rd near River Rd
- Post-2013, three more fatal crashes:
  1. Two pedestrian fatalities in one crash on Route 9G at CR 78/Broadway
  2. One fatality in a 'T-bone' crash at Route 9G & CR 78
  3. One fatality when a motorist lost control on Route 9G and struck a fixed object



# Upper Route 9G

## Corridor Management Plan

### Purpose

**To identify short- and long-range recommendations to improve vehicular and non-vehicular safety and mobility.**





# Upper Route 9G

## Corridor Management Plan

### Project Status

- Reviewed previous studies
- Inventoried the roadways
- Collected extensive traffic, pedestrian, bicycle, speed and crash data
- Conducted a Road Safety Audit (RSA) with responsible agencies
- Analyzed the data to evaluate safety, operational and capacity concerns
- All detailed in Tech Memos 1 - 4 which have been posted online
- Identified draft recommendations and prepared Tech Memo 5



# Upper Route 9G

## Corridor Management Plan

### **Presentation Format**

- **Almost 50 recommendations** (not counting repairs to be addressed through maintenance)
- **Developed with a Technical Advisory Committee (TAC)**
- **Grouped by location: Area-wide; Trails; CR 78; CR 103; NY 9G; Transit**
- **Available online at** <http://www.dutchessny.gov/pdctc.htm>
- **Tech Memo 5 also available at the break-out tables**
- **Presenting recommendations by location, followed by discussion**
- **Looking for public input and support**

**There will be time after the presentation to discuss the recommendations at smaller tables with members of the TAC.**

Overall Study Area Improvements – Education, Enforcement, Planning & Design	
<b>Ongoing</b>	
A-1	Make more frequent use of portable driver speed feedback devices. Education & Targeted Enforcement
A-2	Host annual Safety Education campaigns for all corridor users at the start of the school year.
A-3	When approving new or retrofitted development projects consider all users (Complete Streets)
A-4	Incorporate Dutchess County Planning Department's Greenway Guides design principals
<b>Mid-Term (2 to 5 years)</b>	
A-5	Consider supplementing the existing speed limit signs with permanent driver-feedback speed limit signs.
Trails & Shared-Use Paths	
<b>Mid-Term (2 to 5 years)</b>	
P-1	Add a pedestrian-bicycle facility between Bard Campus and newly-acquired Montgomery Place.
P-2	Develop a trail through the Tivoli Bays Management Area connecting Bard with Tivoli.
<b>Long-Term (6 to 10 years)</b>	
P-3	Construct an off-street shared-use path from Montgomery Place to Barrytown Road/UTS.
P-4	Widen the existing 6-foot wide shared use path through Bard College to a minimum of 10 feet.
Transit	
<b>Mid-Term (2 to 5 years)</b>	
T-1	Install bus stop shelters with maps and schedules at bus stops within the study area.
T-2	Adjust service in response to ridership on the Dutchess County Public Transit Loop and the Bard Shuttle.

CR 103 Corridor-wide Improvements	
<b>Mid-Term (2 to 5 years)</b>	
C-1	Reclassify CR 103 from an Urban Major Collector to an Urban Minor Collector.
C-2	Develop an improved wayfinding signing plan for Bard College.
C-3	Assess pedestrian crosswalks along CR 103 (Annandale Rd) on the Bard campus for optimal location.
C-4	Consider installing Rectangular Rapid Flashing Beacons (RRFBs) at Bard campus CR 103 crossings.
<b>Long-Term (6 to 10 years)</b>	
C-5	Consider reducing the speed on CR 103 (Annandale Rd) from Barrytown Road to River Road to 35 mph.
C-6	Incorporate traffic calming elements along CR 103 (thru Bard to encourage lower vehicle speeds).
C-7	Extend the sidewalk along CR 103 from Campus Road to Route 9G.
CR 103 & Cruger Island Road	
C-8	Evaluate options for reconstructing the intersection as a perpendicular T-intersection.
CR 103 & River Road Triangle	
8-1	Consider reconfiguring the River Road triangle into a standard "T" intersection/ Signal/Roundabout...

CR 78 Corridor-wide Improvements	
<b>Mid-Term (2 to 5 years)</b>	
D-1	Add a guiderail on the south side of Broadway, west of Dock Road.
D-2	Extend the sidewalk on one side of Broadway from Pine Street to the river.

#### LEGEND

	Immediate term (within 1 year)
	Mid-term (2 to 5 years)
	Long-term (6 to 10 years)
	Ongoing or from Mid-term to Long-term



# Recommendations

## (Upper 9G Corridor Management Plan)



NYS Route 9G Corridor-wide Improvements	
<b>Immediate Term (within 1 year)</b>	
B-1	Assess the needs and benefits of reducing the speed limit to 45 mph from CR 78 to NY 199.
<b>Mid-Term (2 to 5 years)</b>	
B-2	Install roadside delineators along curved roadway sections.
B-3	Consolidate existing signing along NYS Route 9G to reduce sign clutter.
B-4	Upgrading existing guiderail and end treatments as necessary based on accident history and code.
B-5	Install a bicycle warning sign and an "In Lane" sign plaque (a "Narrow Lane assembly") along Route 9G
<b>Long-Term (6 to 10 years)</b>	
B-6	Incorporate traffic calming elements at key locations to encourage motorists to reduce their speed.
B-7	Provide 11-foot travel lanes with 4-foot (or wider) shoulders, where feasible.
NYS Route 9G Intersection Improvements	
Route 9G & CR 78 (W. Kerley Corners Road)	
<b>Immediate Term (within 1 year)</b>	
2-1	Improve the profile and alignment of the CR 78 westbound approach to Route 9G to improve sight lines.
2-2	Better delineate the intersection to reduce speeds through it.
2-3	Supplement the intersection warning sign on NB NYS 9G with a flashing beacon assembly.
2-4	Reduce the speed limit on CR 78 from 55 mph to 45 mph approaching NY 9G.
<b>Mid-Term (2 to 5 years)</b>	
2-5	Improve the lighting at the intersection to provide better visibility.
2-6	Assess the effectiveness of the flashing signal and larger stop signs.
2-7	Study installing a full traffic signal or roundabout, based on safety issues.
2-8	Evaluate the feasibility of reducing the grade/profile on NY Route 9G immediately south of CR 78.
2-9	Evaluate zoning and land use planning near the intersection to accommodate increased pedestrian use.
Route 9G & Kidd Lane	
<b>Mid-Term (2 to 5 years)</b>	
3-1	Evaluate the safety of the existing passing lane on Route 9G and request removal if warranted for safety.
Route 9G & CR 79 (Budds Corners Road)	
<b>Immediate Term (within 1 year)</b>	
4-1	Evaluate the need and benefit of reducing the speed limit on CR 79 from 55 mph to 45 mph.
<b>Long-Term (6 to 10 years)</b>	
4-2	Reconstruct the intersection of CR 79 and NYS Route 9G as a perpendicular T-intersection.
Route 9G & CR 103 (Annandale Road)/Old Whalesback Road	
<b>Mid-Term (2 to 5 years)</b>	
5-1	Study the justification for the installation of a traffic signal or a Rapid Rectangular Flashing Beacon (RRFB).
5-2	Install sidewalks on the north side of Old Whalesback Road from NY 9G to Whalesback Road.
Route 9G & Bard College Entrance Road	
<b>Immediate Term (within 1 year)</b>	
6-1	Add "Bard College Entrance Ahead" sign (or similar) along NYS Route 9G north and southbound.
<b>Mid-Term (2 to 5 years)</b>	
6-2	Improve safety crossing on NY 9G at the Entrance Road with a flashing beacon, a traffic signal or a HAWK.
Route 9G & River Road/Kelly Road	
<b>Immediate Term (within 1 year)</b>	
7-1	Install "No Turn on Red" signs on eastbound River Road and westbound Kelly Road at NYS Route 9G.
7-2	Evaluate the northbound pavement skid resistance and improve, if necessary.
7-3	Improve the grade crossing from Kelly Road to River Road and modify signal clearances, as needed.

#### LEGEND

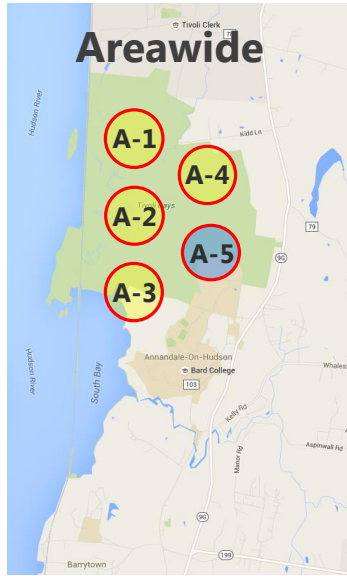
	Immediate term (within 1 year)
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	Ongoing or from Mid-term to Long-term





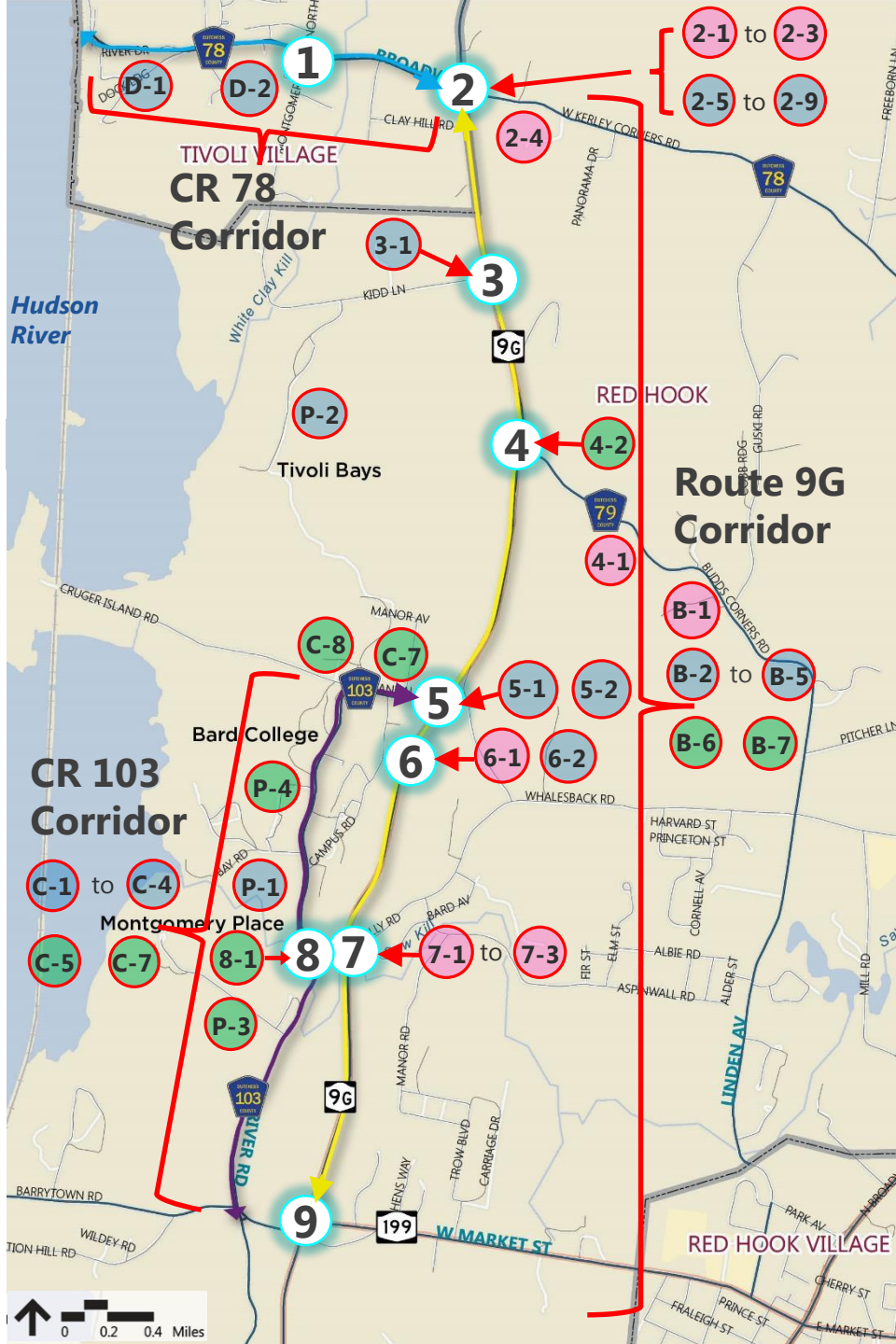
# Implementation Schedule

- Immediate (< 1 year)
- Mid-term (1-5 years)
- Longer-term (6-10 years)
- Continuing/ Ongoing



# Recommendations Key Map

- T-1
  - T-2
- Transit**



# Review of Recommendations

Upper Route 9G Corridor Management Plan

# Overall Study Area

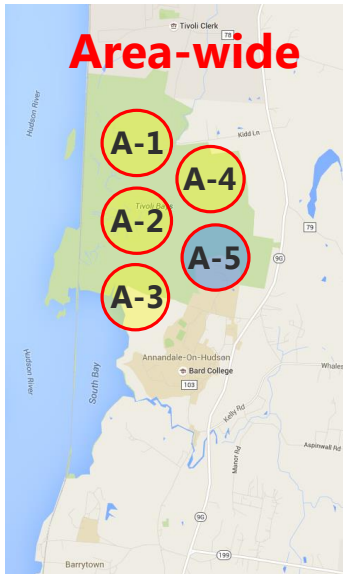
Upper Route 9G Corridor Management Plan



## Implementation Schedule

-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

### Area-wide



## Recommendations Key Map

### Area-wide

To address user, land use, and design practices that will advance responsible corridor use and development, contributing to a safer travel environment.

### Concerns:

- Speeding
- DWAI
- Visibility
- Minimizing conflicts



(Bard sign near 9G)

## Area-Wide Recommendations

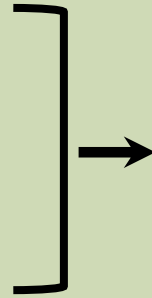
**A-1** Targeted Enforcement & Portable Speed Feedback Devices

**A-2** Annual Road Safety Awareness Campaign

**A-3** Implement Complete Street Design Principles

**A-4** Incorporate Dutchess County Planning Dept.'s Greenway Guides Principles:

- Building Placement
- Narrow streets in hamlet centers
- Development in existing centers
- Street trees
- Bicycle Plans
- Consolidated driveways
- Shared parking
- Rural feel for low volume roads



**A-5** Consider permanent driver-feedback speed signs



***Engineering, Education, & Enforcement***

# Trails & Paths

Upper Route 9G Corridor Management Plan



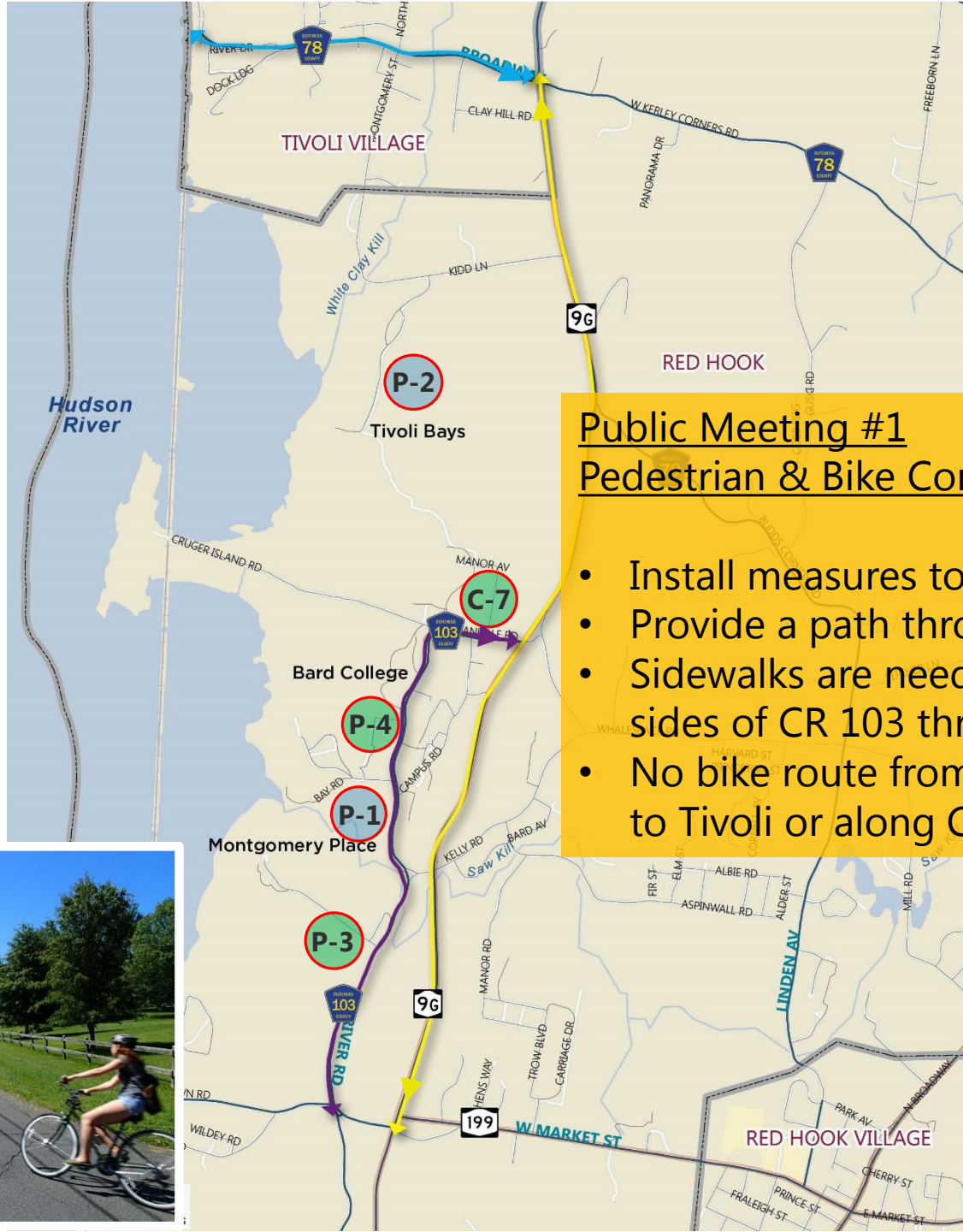
## Implementation Schedule

-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

## Recommendations Key Map

### Trails & Paths

### Trails & Paths



### Public Meeting #1

#### Pedestrian & Bike Comments:

- Install measures to slow traffic
- Provide a path through Tivoli Bays
- Sidewalks are needed on both sides of CR 103 through Bard
- No bike route from Bard College to Tivoli or along CR 103

## Trails & Paths

**P-1** Pedestrian-bicycle facility to connect Bard Main Campus to Montgomery Place

**P-2** Pedestrian-bicycle facility to connect Bard Main Campus to Village of Tivoli, through Tivoli Bays

**P-3** Pedestrian-bicycle facility to connect Montgomery Place to Barrytown Road/UTS

**C-7** Sidewalk/Ped-bike facility along CR103 from Campus Road north to NY 9G




CR 103 (River Rd.) looking south from Montgomery Pl.

# CR 78 (Broadway)

Upper Route 9G Corridor Management Plan



# Implementation Schedule

-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

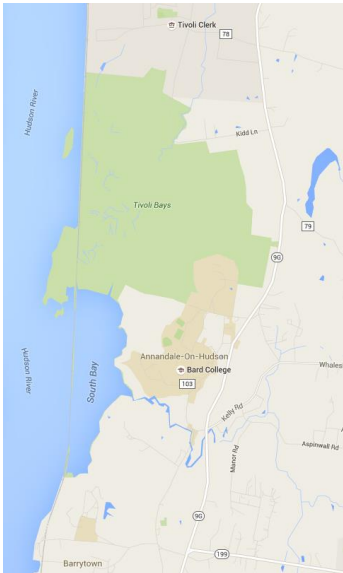
# Recommendations Key Map

**CR 78 Corridor**



## Concerns

- Run-off-road crashes
- Pedestrian facilities





## CR 78 Corridor-Wide Recommendations

**D-1** Add a guide rail on the south side of Broadway west of Dock Road

**D-2** Extend a sidewalk on one side of Broadway from Pine St to the River



CR 78 (Broadway) looking east



CR 78 (Broadway) looking east from Kaatsbaan

# CR 103

Upper Route 9G Corridor Management Plan



# Implementation Schedule

- Immediate (< 1 year)
- Mid-term (1-5 years)
- Longer-term (6-10 years)
- Continuing/Ongoing

# Recommendations Key Map

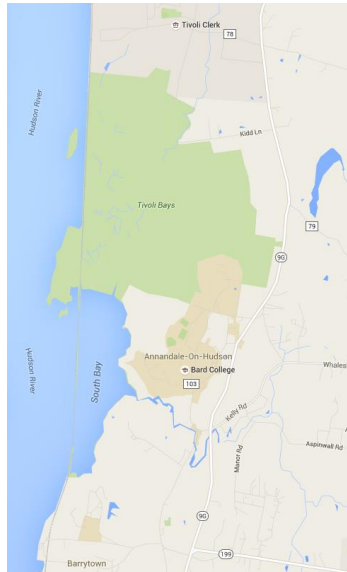
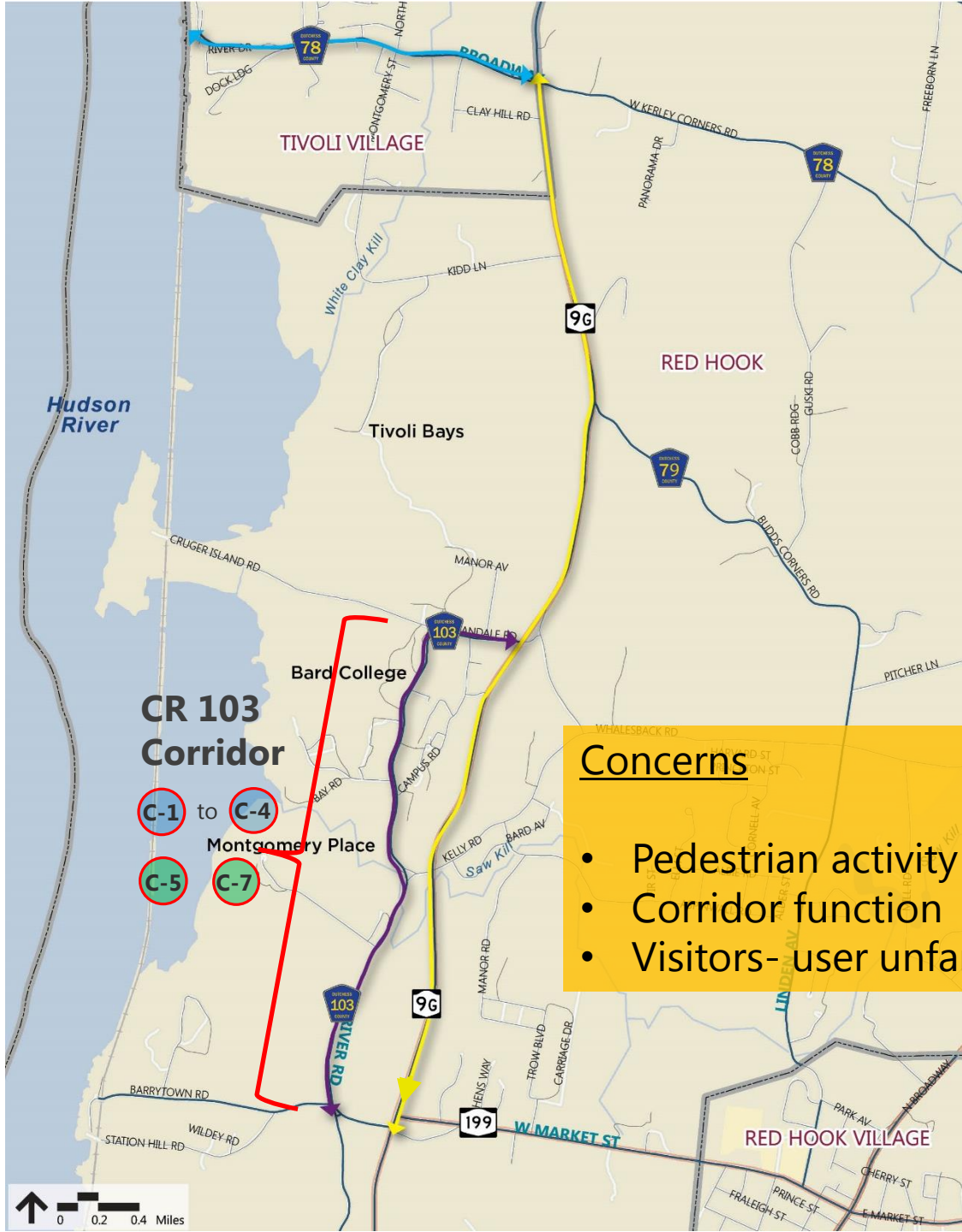
CR 103 Corridor

## Concerns

- Pedestrian activity
- Corridor function
- Visitors- user unfamiliarity

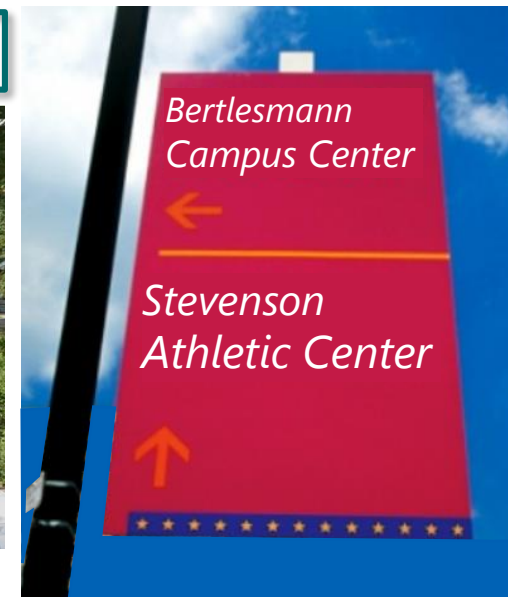
## CR 103 Corridor

C-1 to C-4  
C-5 C-7  
Montgomery Place



## CR 103 Corridor-Wide Recommendations

- C-1** Request CR 103 be reclassified as a lower-volume, lower-speed Urban Minor Collector roadway
- C-2** Develop improved wayfinding signing for Bard College
- C-3** Re-evaluate pedestrian crosswalk locations/design to optimize efficiency & safety
- C-4** Consider installing RRFBs between North and South Campus Roads
- C-5** Consider reducing speed limit to 35 mph south of the Saw Kill Creek
- C-6** As part of the Bard Master Plan, incorporate such traffic calming elements as:
  - Raised pavement
  - Curb bumpouts
  - Width reduction



## Implementation Schedule

-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

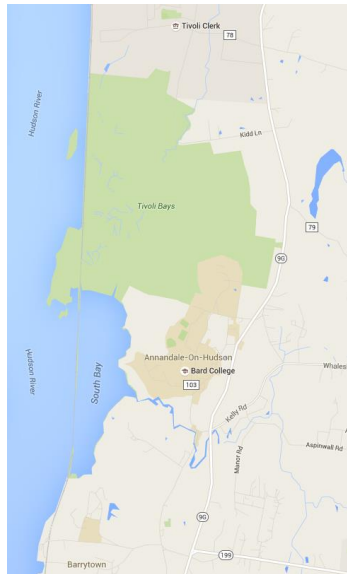
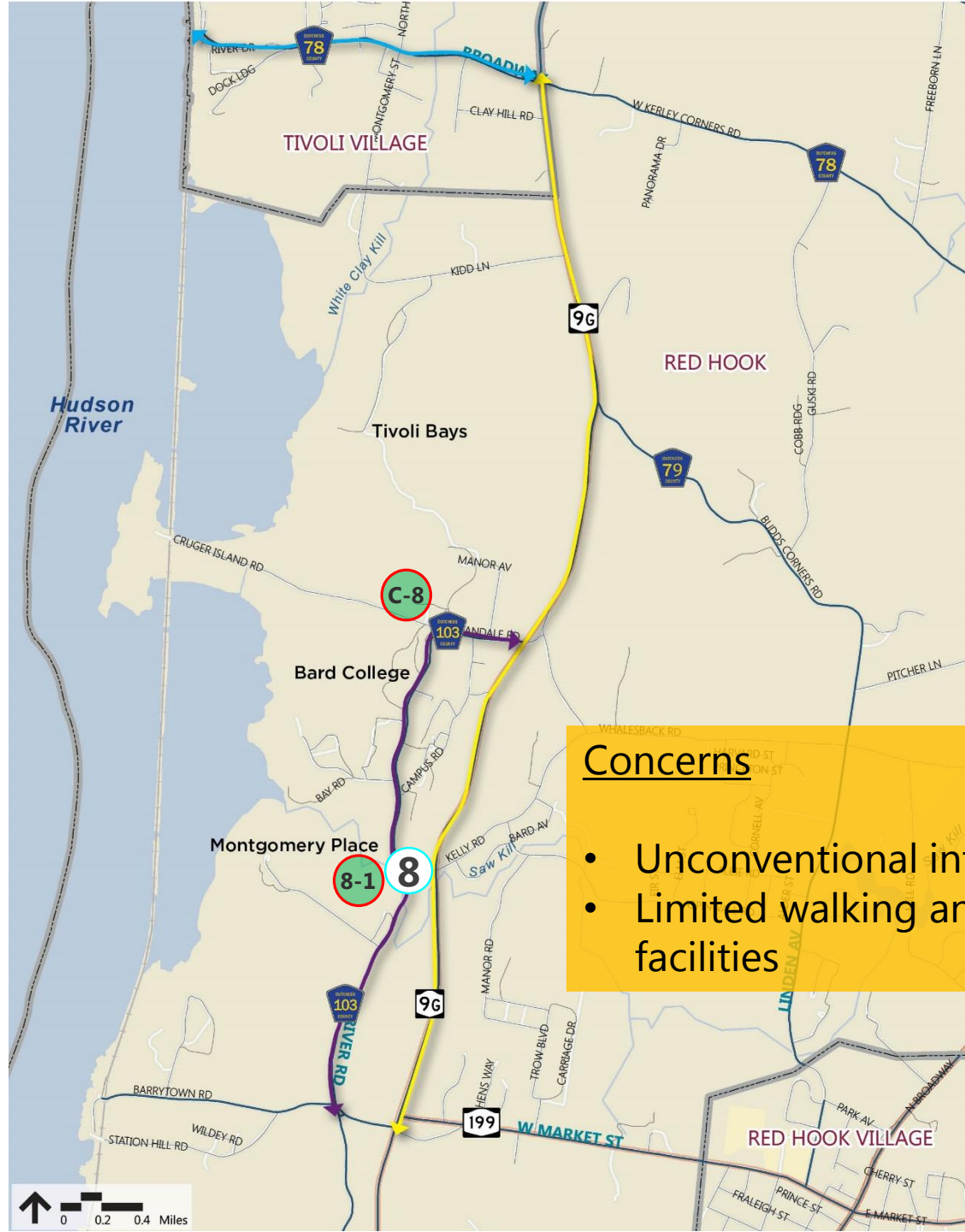
## Recommendations Key Map

### CR 103 Intersections



### Concerns

- Unconventional intersections
- Limited walking and bicycling facilities





## CR 103 Intersection Recommendations: Cruger Island Rd

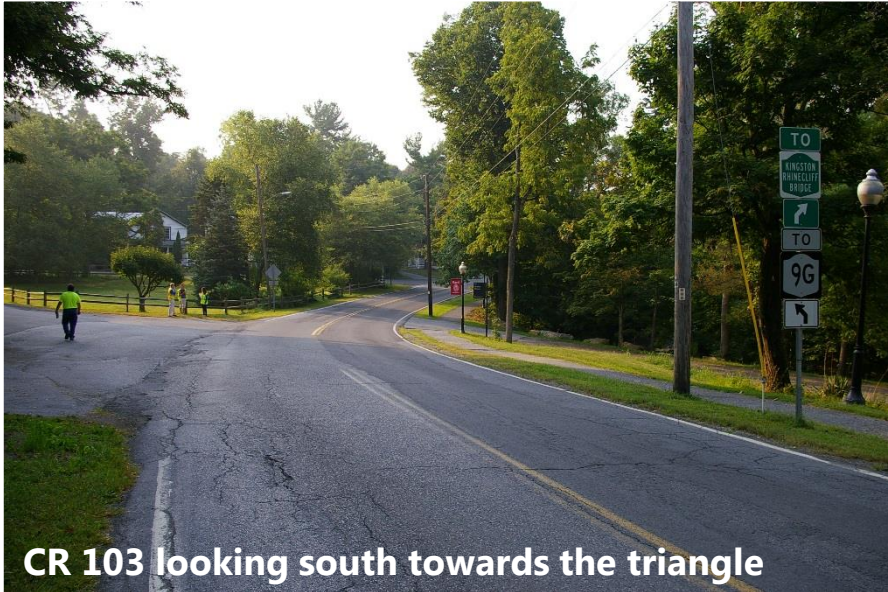
### C-8 Evaluate options to reconstruct the intersection as a traditional "T"





## CR 103 Intersection Recommendations: River Rd

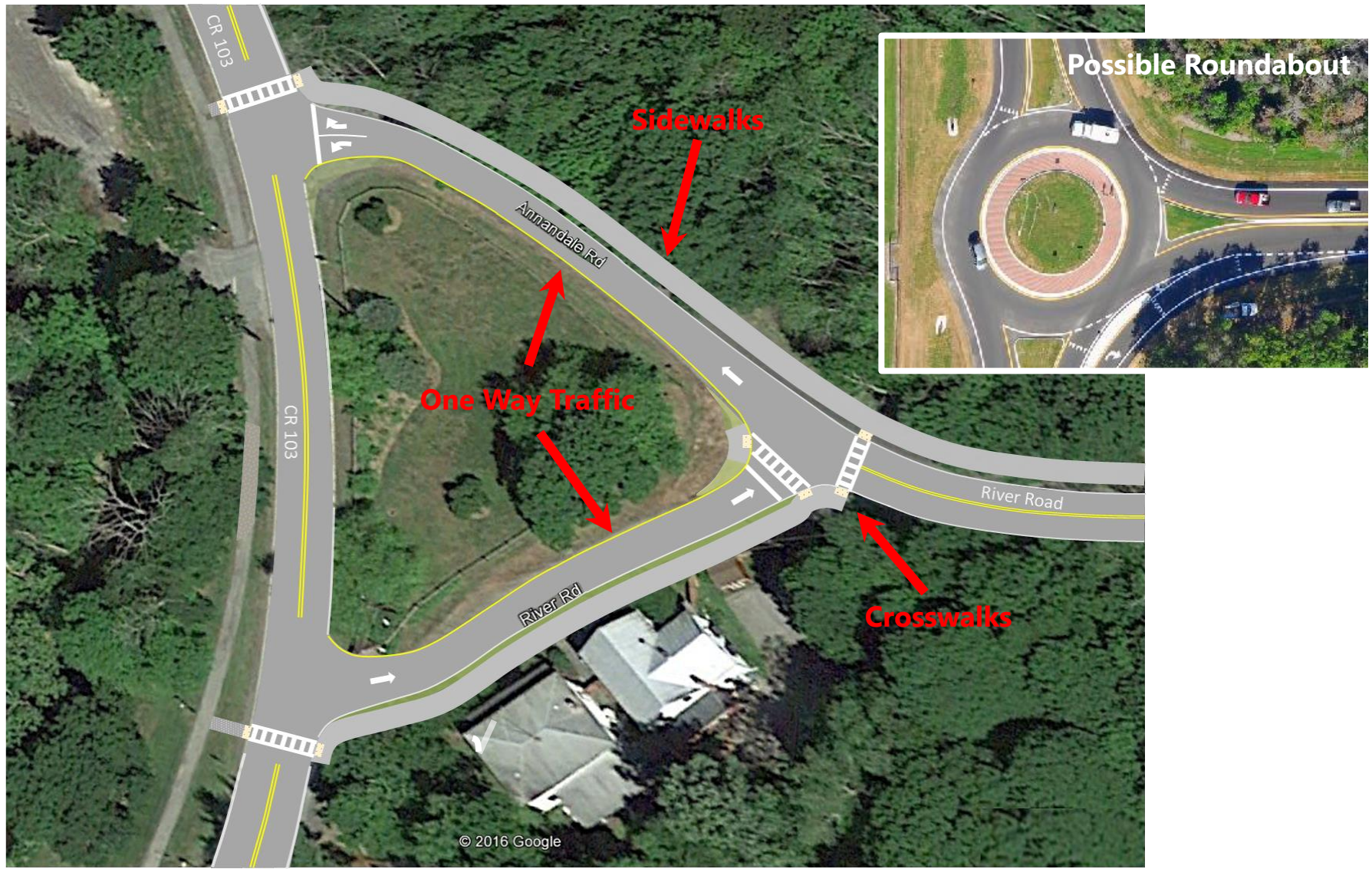
**8-1** Evaluate options to reconstruct the intersection as a traditional “T” with traffic signal, roundabout or possible alternative configuration





## CR 103 Intersection Recommendations: River Rd

**8-1** Evaluate options to reconstruct the intersection as a traditional "T" with traffic signal, roundabout or possible alternative configuration



# NYS Route 9G

Upper Route 9G Corridor Management Plan








## Implementation Schedule

-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

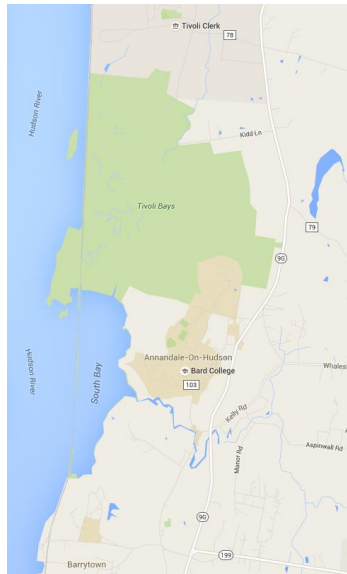
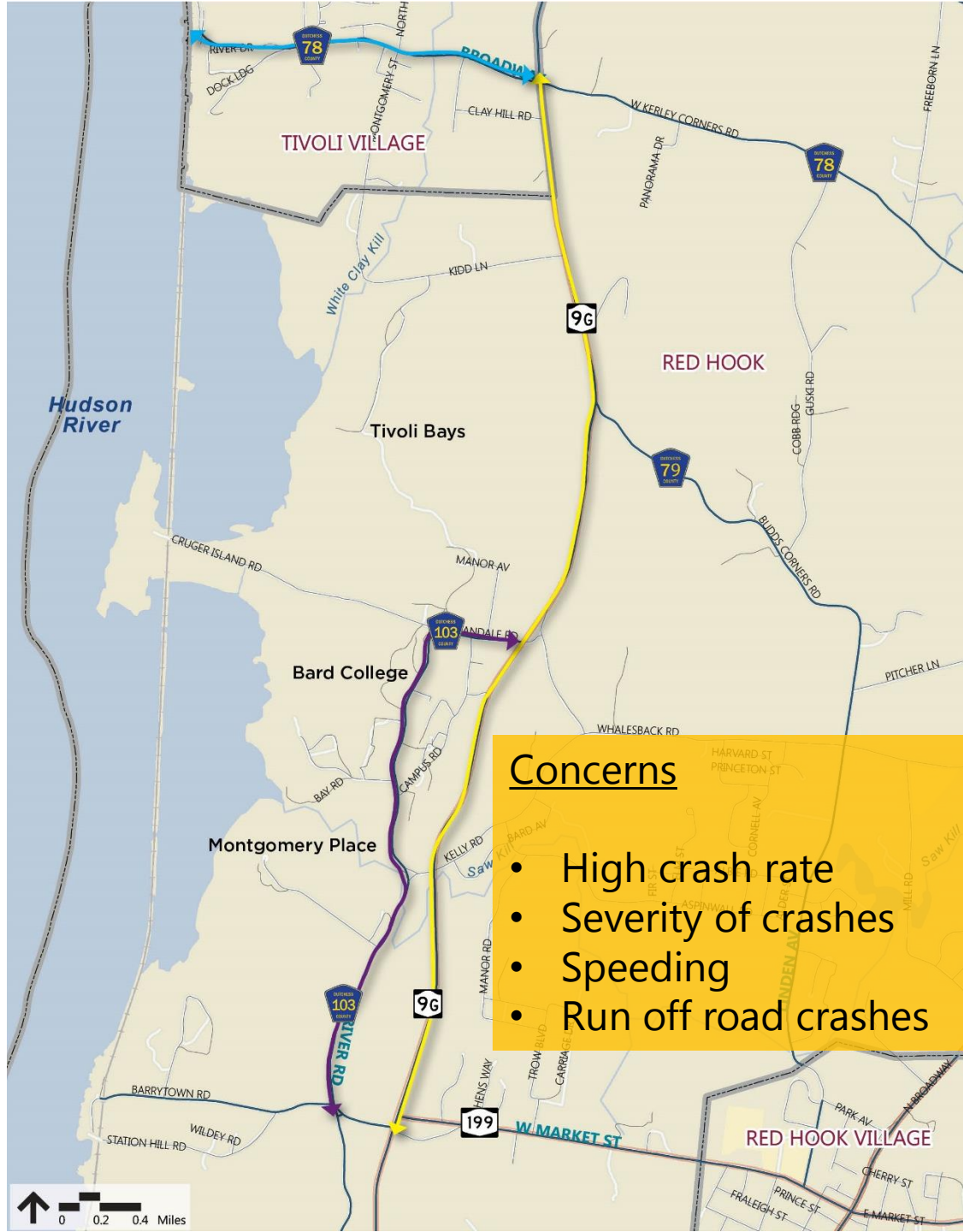
## Recommendations Key Map

### Route 9G Corridor

-  B-1
-  B-2 to  B-5
-  B-6  B-7

### Concerns

- High crash rate
- Severity of crashes
- Speeding
- Run off road crashes





## NYS Route 9G Corridor-Wide Recommendations

**B-1** Consider reducing speed limit to 45 mph corridor-wide

**B-2** Consider installing roadside delineators on curves

**B-3** Consider consolidating signs on NY 9G to reduce clutter

**B-4** Evaluate the need to upgrade existing guiderail and end treatments to current standards or add new guiderail

**B-5** Install Deer and Bicycle warning signs



**B-6** Install traffic calming to alert drivers that active section of the corridor requiring lower speeds

**B-7** Seek to provide 11' vehicle lanes and 4' shoulders



## Implementation Schedule

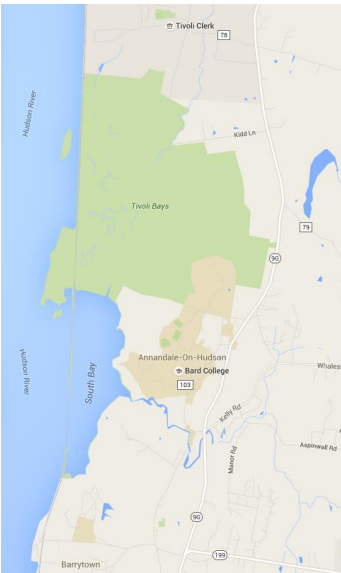
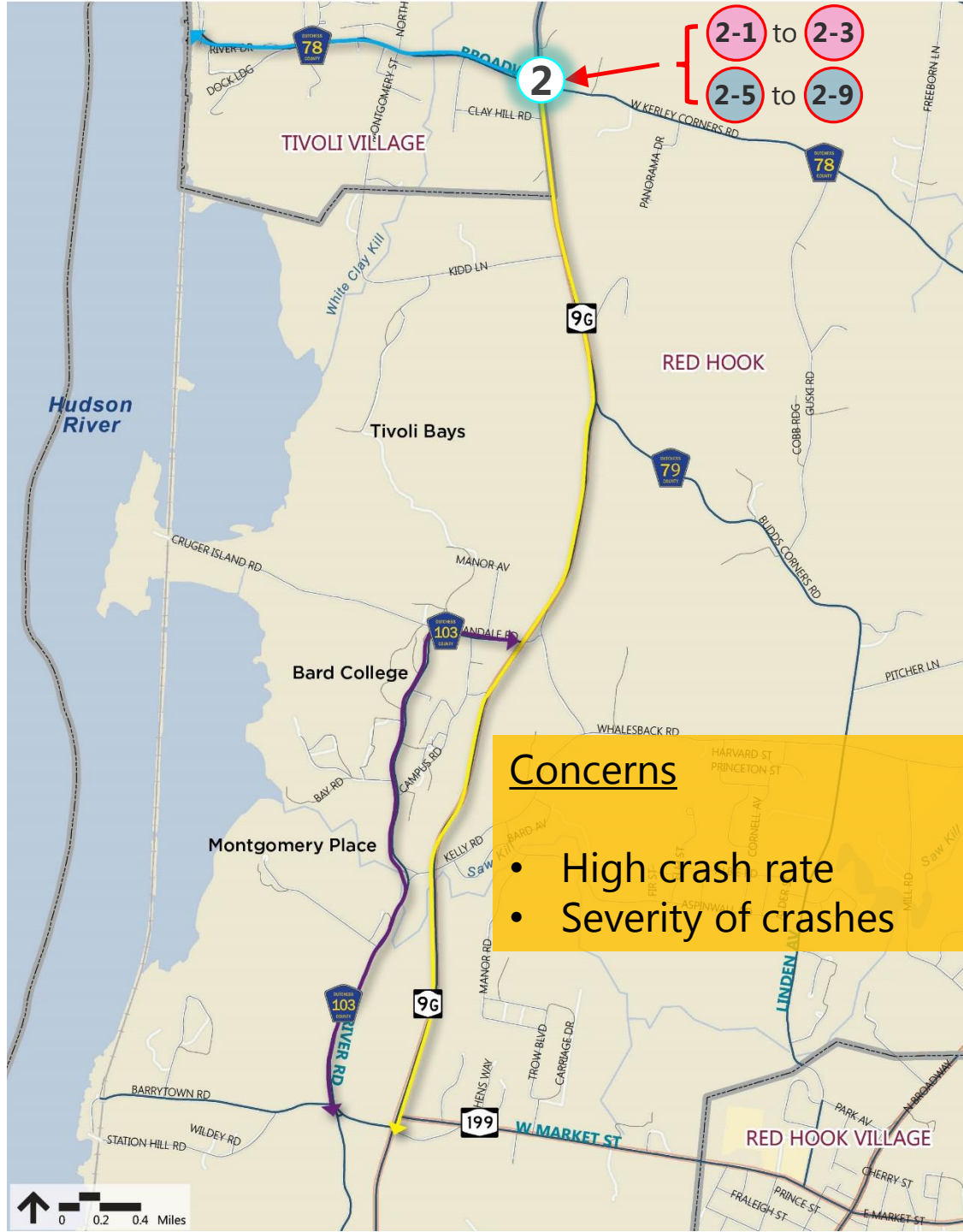
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## Recommendations Key Map

**Route 9G at  
CR 78**

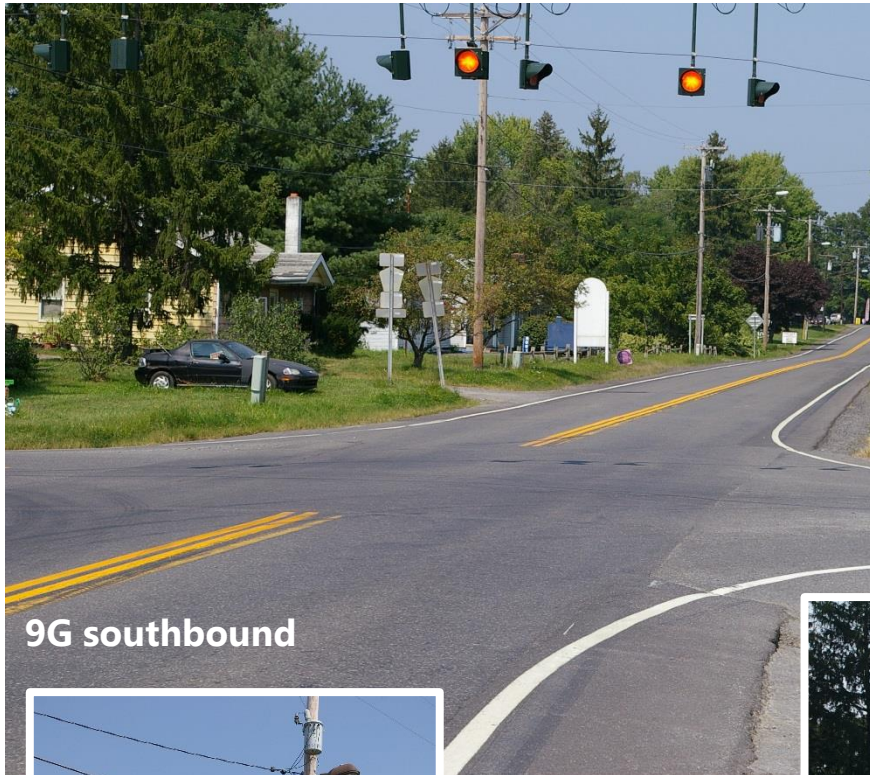
### Concerns

- High crash rate
- Severity of crashes





## NYS Route 9G Intersection Existing Conditions: CR 78/West Kerley Corners Rd



9G southbound



CR 78 westbound at 9G



Fixed objects

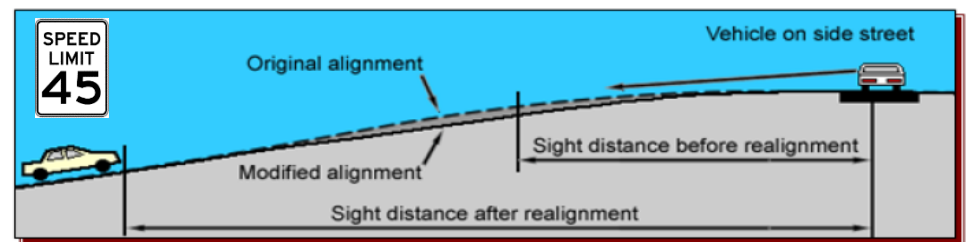


9G from Jaeger House driveway (looking south)



## NYS Route 9G Intersection Recommendations: CR 78/West Kerley Corners Rd

- 2-1** Improve profile and alignment of westbound CR 103 approaching 9G
- 2-2** Better delineate the intersection & slow traffic
- 2-3** Add a flashing beacon to the intersection warning sign on 9G
- 2-4** Reduce the speed limit on CR 78 approaching 9G to 45 mph
- 2-5** Improve lighting at the intersection to provide better visibility
- 2-6** Determine how effective the new flashing red signal and larger stop signs are
- 2-7** Undertake an engineering study to determine whether a full traffic signal or roundabout can be installed on 9G at CR 78
- 2-8** Evaluate the ability to improve the profile of 9G northbound approaching CR 78 (as may be required for signal installation)
- 2-9** Implement land-use planning regulations consistent with the improvements proposed for the intersection of NY 9G with CR 78



*This graphic depicts how changes in the vertical alignment can affect sight distance. Even small changes in grade can have a significant impact.*

## Implementation Schedule

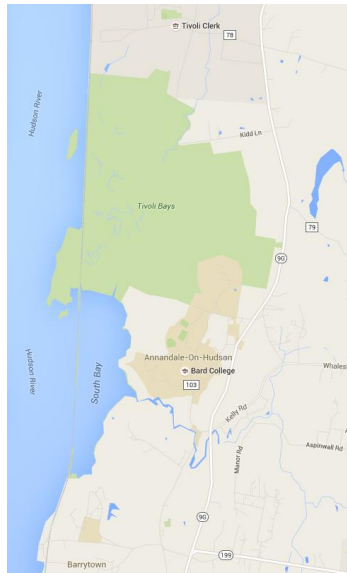
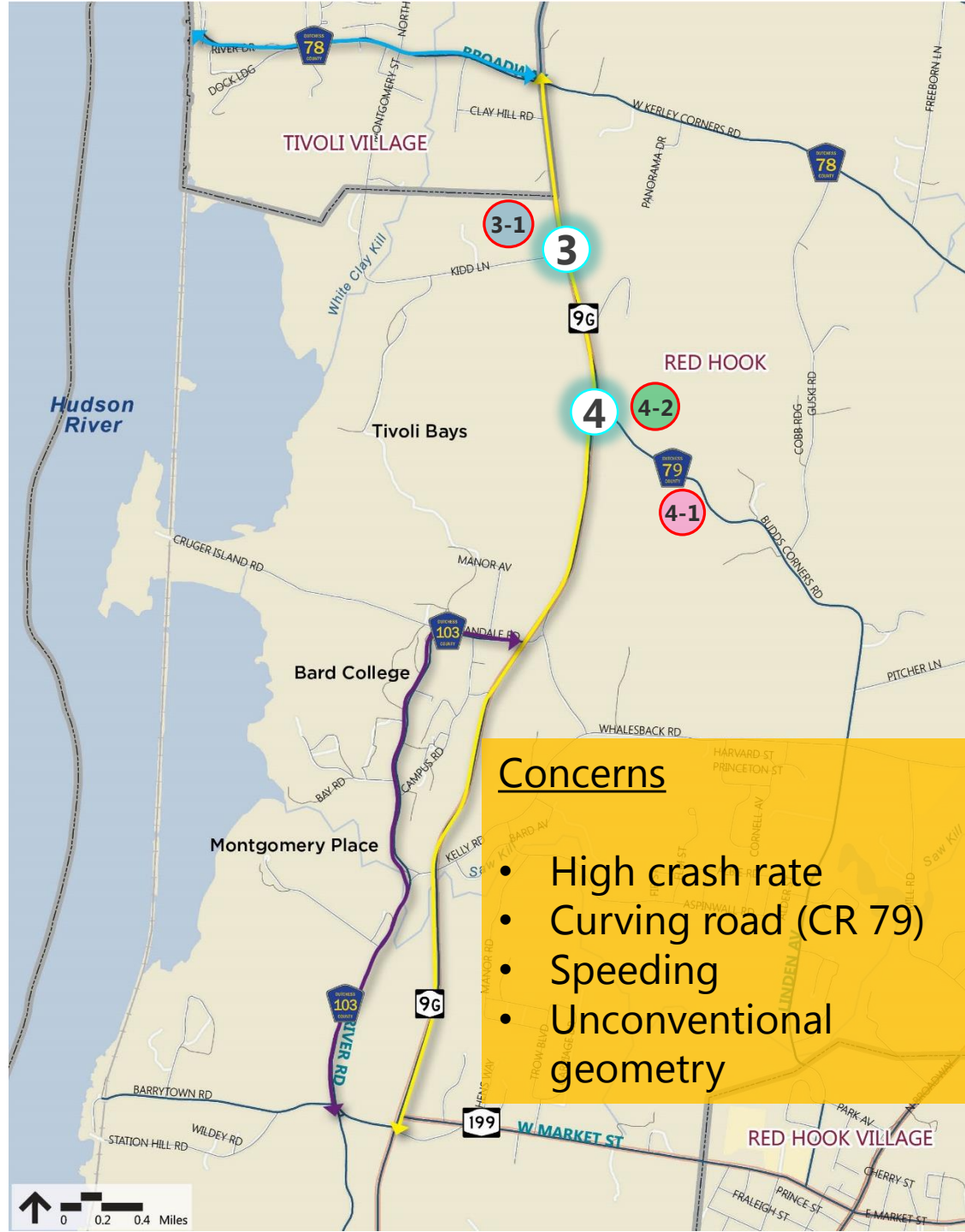
-  Immediate (< 1 year)
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## Recommendations Key Map

**NY Route 9G  
at Kidd Ln.  
& CR 79**

### Concerns

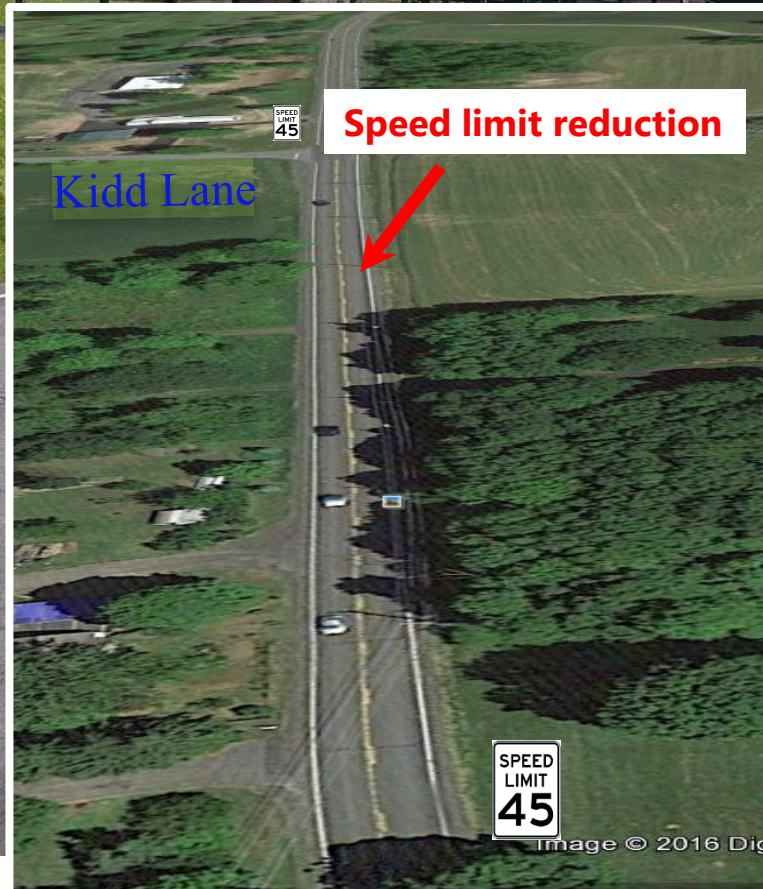
- High crash rate
- Curving road (CR 79)
- Speeding
- Unconventional geometry





## NYS Route 9G Intersection Recommendations: Kidd Ln

### 3-1 Evaluate the safe operation of the passing lane on NY 9G





## NYS Route 9G Intersection Recommendations: CR 79/Budds Corners Rd

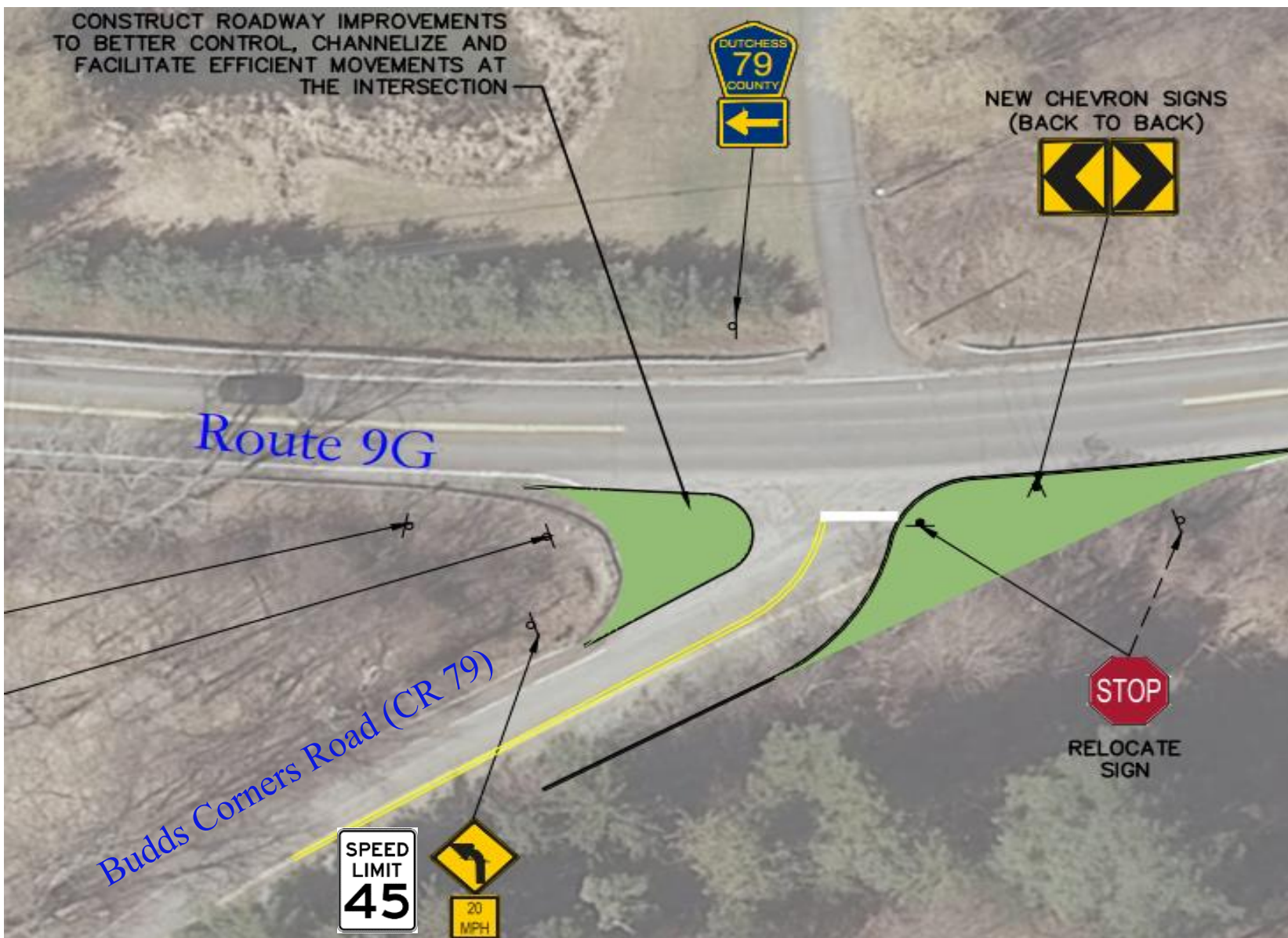
- 4-1 Reduce the speed limit on CR 79 approaching NY 9G to 45 mph
- 4-2 Study options to make CR 79 (Budds Corners Rd.) a “T” intersection





## NYS Route 9G Intersection Recommendations: CR 79/Budds Corners Rd

- 4-1** Reduce the speed limit on CR 79 approaching NY 9G to 45 mph
- 4-2** Study options to make CR 79 (Budds Corners Rd.) a “T” intersection

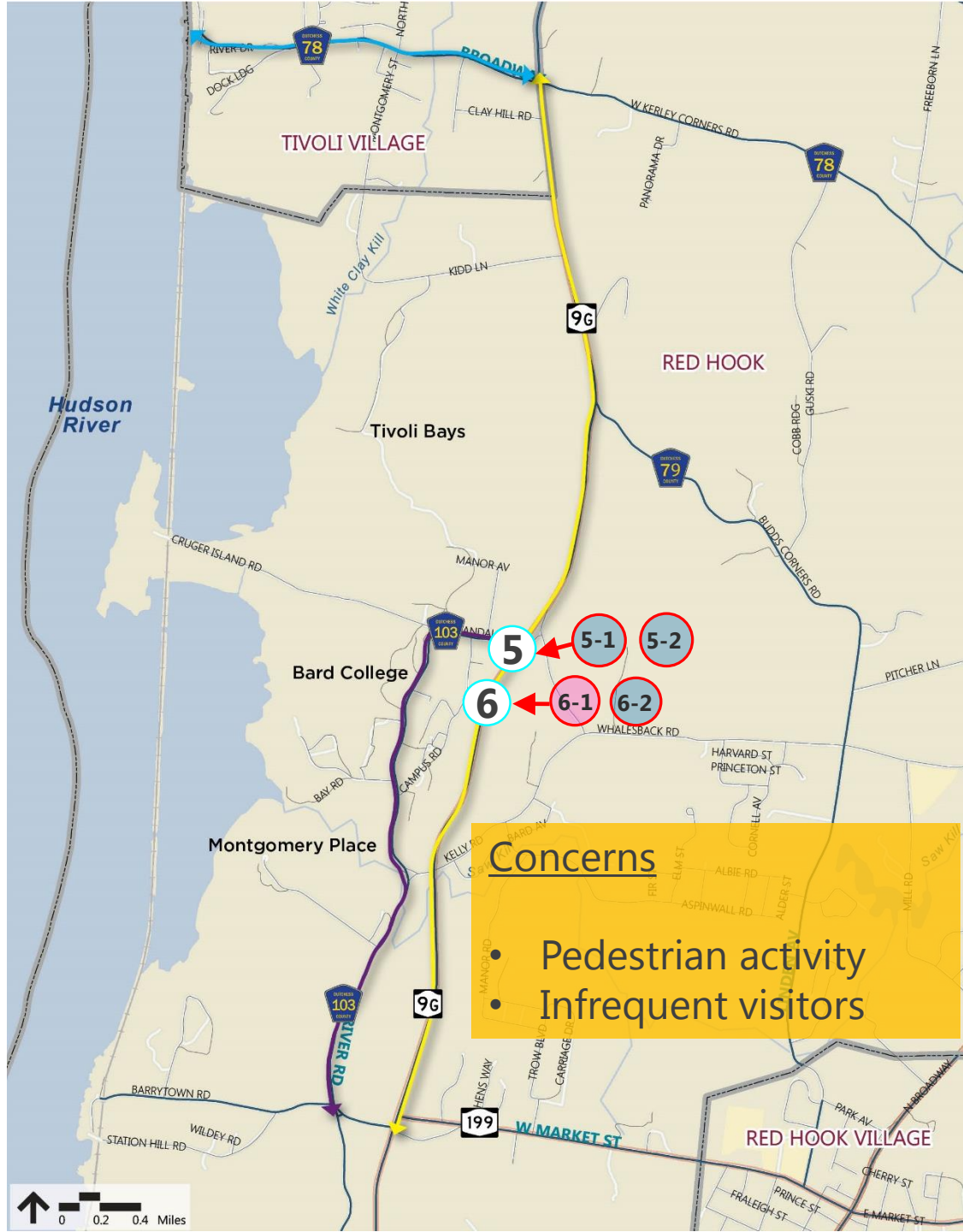
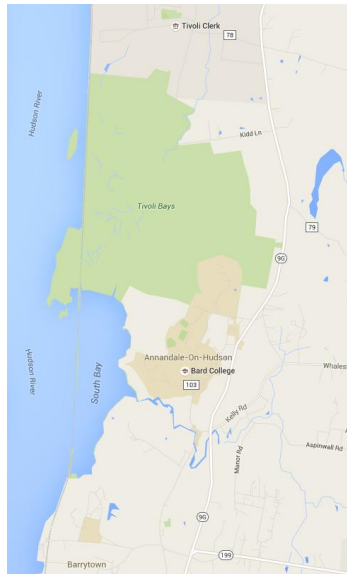


# Implementation Schedule

- Immediate (< 1 year)
- Mid-term (1-5 years)
- Longer-term (6-10 years)
- Continuing/Ongoing

# Recommendations Key Map

**NY Route 9G  
at CR 103  
& Entrance Road**



## Concerns

- Pedestrian activity
- Infrequent visitors



## **NYS Route 9G Intersection Recommendations: Annandale/Old Whalesback Rd**

- 5-1** Study options to install a traffic signal or an RRFB along with high-visibility crosswalks
- 5-2** Install a sidewalk on Old Whalesback Road from 9G to Whalesback Road



**Looking towards 9G south from Old Whalesback Rd.**



**Annandale Rd. looking east**




## NYS Route 9G Intersection Recommendations: Entrance Rd

- 6-1** Add directional guide signs advising motorists that they are approaching the entrance to Bard College
- 6-2** Study installation of a full signal, an RRFB or a HAWK and high-visibility crosswalks and appropriate reuse of Bard building





# Implementation Schedule

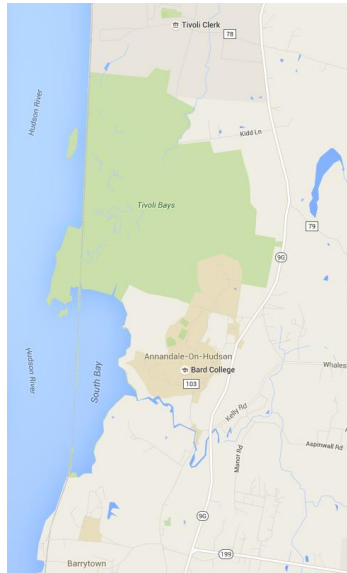
-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

## Concerns

- Sightlines
- Grades crossing 9G
- Skidding

# Recommendations Key Map

## NY Route 9G at Kelly Road





## NYS Route 9G Intersection Recommendations: River/Kelly Rd

- 7-1** Install No Turn on Red signs facing River and Kelly roads
- 7-2** Evaluate and fix northbound skid resistance, as necessary
- 7-3** Study the need to improve the grade crossing 9G





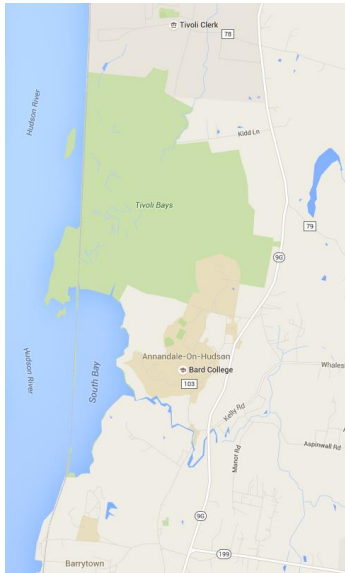
# Transit

Upper Route 9G Corridor Management Plan

# Implementation Schedule

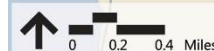
-  Immediate (< 1 year)
-  Mid-term (1-5 years)
-  Longer-term (6-10 years)
-  Continuing/Ongoing

# Recommendations Key Map Transit



## Transit Concerns

- Service should be expanded to serve needs for longer-distance trips
- Bus stops should provide protection and connect to safe and convenient paths



T-1

T-2

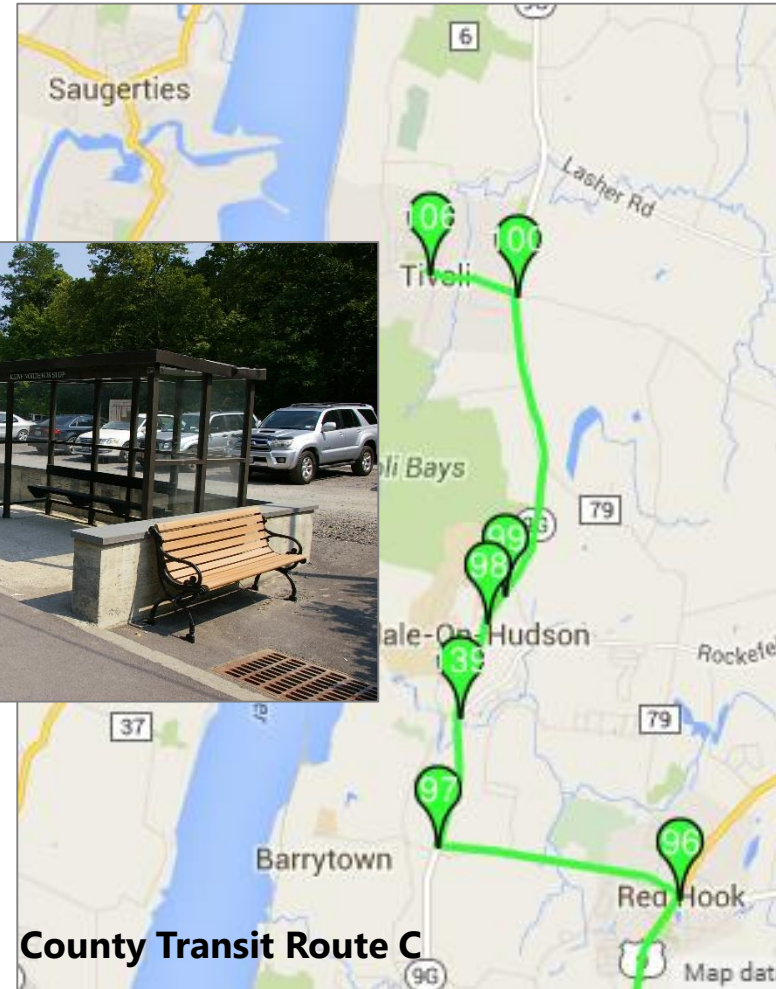
Transit



## NYS Route 9G Transit Recommendations

### T-1 Install shelters with maps and schedules at bus stops

## T-2 Evaluate ridership levels and add/adjust service to support frequent transit use





# Breakout Session

Upper Route 9G Corridor Management Plan

# Contact Us

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(click on 'Community Planning Initiatives; Upper Route 9G)